

REMARKS

Claims 2, 6-9, and 21-70 are pending in this Application. Claims 51-70 are newly added.

The Applicant thanks Examiner **Ali Zamani** for the non-final Office action mailed 9 September 2002 (Paper No. 14). The Applicant (hereinafter "Lee") has read and carefully considered Paper No. 14.

In Paper No. 14, the Examiner relies solely on the following one reference: U.S. Patent No. 5,483,260 issued on 9 January 1996 to Parks *et al.* (Parks).

Lee's present invention relates to a method of connecting a video display unit to a computer system *after* the computer system has been initialized and *while* the computer system is being operated by a user. Lee's present invention also relates to an apparatus for performing that method.

Lee's present invention is intended to make a computer more convenient to use, so that a user can replace a display unit while the computer remains on. It can be inconvenient to need to reboot a computer when replacing a display unit. Lee's present invention sets forth a method and apparatus for replacing a display unit without rebooting the computer. The computer will detect the newly connected display unit and operate with the new display unit smoothly, without a need to reboot the computer.

The claims 2, 6-9, and 21-50 stand rejected under 35 U.S.C. § 102 as being anticipated by Parks. Lee respectfully believes that this rejection is improper. The Applicant respectfully submits that the § 102 rejection is fatally flawed because Parks does not explicitly or inherently describe each and every element of Lee's claimed invention. Parks discloses a valuable invention, but Parks does not describe Lee's claimed invention.

“A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.” *Verdegaal Bros. Inc. v. Union Oil Co. of California*, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987).

“Absence from the reference of any claimed element negates anticipation.” *Kloster Speedsteel AB v. Crucible Inc.*, 230 USPQ 81, 84 (Fed. Cir. 1986). See also M.P.E.P. § 2131. “Even if the prior art device performs all the functions recited in the claim, the prior art cannot anticipate the claim if there is any structural difference.” M.P.E.P. § 2114.

In general, Parks is intended to eliminate a need for a floppy diskette with information about a new monitor after the new monitor is connected to a computer. One purpose of Parks is to make a person's life a little bit less complicated, by eliminating a need of a diskette when installing a new computer monitor (see col. 2, lines 60-67).

Parks clearly states that “in the preferred embodiment during each POST procedure the

system unit 114 receives capability information from the video monitor 116" (col. 6, lines 40-42). The POST procedure is the power on self test procedure performed when a computer is first powered on. A power on self test is described in Lee's Specification on p.3 at lines 8-16, for example.

Also, Parks is intended to eliminate a need for a user to manually input any data about the new monitor (identifying the model, capabilities, or features of the new monitor, for example) after the new monitor is connected to a computer (see col. 6, lines 11-39). In Parks, regarding a new monitor, the "communication of capability information is preferably performed during or after each power on self test (POST) of the computer system without direct user involvement" (col. 6, lines 33-39).

A. CLAIMS 26-30 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claims 26-30 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 26.

Parks does not explicitly or inherently describe *connecting* a video display unit to a computer system *after* the computer system has been initialized (see lines 2-3 of Lee's claim 26). Furthermore, Parks does not explicitly or inherently describe other features of Lee's claim 26.

The claim 26 sets forth:

A method, comprising:

connecting a video display unit to a computer system after said computer system has been initialized and while said computer system is being operated by a user, said video display unit conveying varying visual information to a user;

detecting whether said video display unit is connected to said computer system; when said video display unit is detected as being connected to said computer system, reading first data corresponding to said video display unit; and

transmitting resolution data to a video card coupled to said video display unit, said resolution data corresponding to said first data.

Parks does not explicitly or inherently describe the foregoing features of Lee's claim 26.

One purpose of Parks is to make a person's life a little bit less complicated, by eliminating a need of a diskette when installing a new computer monitor (see col. 2, lines 60-67).

Parks never explicitly or inherently describes "*connecting a video display unit to a computer system after said computer system has been initialized and while said computer system is being operated by a user.*" Parks never describes a new video display unit being connected to a computer system after the computer system has been initialized and while the computer system is being operated by a user. Therefore, Parks at least fails to explicitly or inherently describe the features of Lee's claim 26 at lines 2-3.

Lee's claim 27 sets forth "The method of claim 26, said connecting, detecting, reading, and transmitting being performed without rebooting said computer system." Parks fails to explicitly or inherently describe these features of claim 27.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claims 26-30 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claims 26-30.

B. CLAIMS 31-35 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claims 31-35 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 31.

Parks does not explicitly or inherently describe *connecting* a video display unit to a computer system *after* said powering on of said computer system (see lines 2-4 of Lee's claim 31). Furthermore, Parks does not explicitly or inherently describe other features of Lee's claim 31.

Lee's claim 32 sets forth "The method of claim 31, said connecting, detecting, reading, and transmitting being performed without restarting said computer system." Parks fails to explicitly or inherently describe these features of claim 32.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claims 31-35 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claims 31-35.

C. CLAIMS 36-42 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claims 36-42 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 36.

Parks does not explicitly or inherently describe “said video display unit being *connected* to said computer system *after* said computer system has been powered on and initialized” (lines 3-5 of Lee’s claim 36). Furthermore, Parks does not explicitly or inherently describe other features of Lee’s claim 36.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 36-42 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claims 36-42.

D. CLAIMS 43-50 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claims 43-50 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 43.

Parks does not explicitly or inherently describe “said video display unit being *connected* to said computer system *after* said computer system has been booted” (lines 3-4 of Lee’s claim

43). Furthermore, Parks does not explicitly or inherently describe other features of Lee's claim 43.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 43-50 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claims 43-50.

E. CLAIM 2 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claim 2 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 2.

Lee's claim 2 sets forth "A method, comprising: *while* power is being supplied to a processing unit, *detecting* whether a video display unit is *newly coupled* to a connecting unit of said processing unit" (lines 2-3). Parks does not explicitly or inherently describe those features set forth in lines 2-3 of claim 2. Instead, Parks discloses a method of communicating some capabilities of a monitor to a computer without requiring a user to insert a floppy diskette.

Also, Lee's claim 2 sets forth "A method, comprising: ... when said video display unit is detected as being newly coupled to said connecting unit while power is being supplied to said processing unit, *reading* first data corresponding to said video display unit; *determining* whether said first data corresponds to second data stored in a memory unit; when said first data does not

correspond to said second data stored in said memory unit, *storing* said first data in said memory unit and *determining* a resolution corresponding to said video display unit and *transmitting* said resolution to a video card coupled to said video display unit; and said detecting further comprising *a polling operation* periodically checking said connecting unit" (lines 6-15). Parks does not explicitly or inherently describe those features set forth in lines 6-15 of claim 2. In particular, Parks fails to explicitly or inherently describe the reading, determining, storing, and transmitting set forth in claim 2. Also, Parks fails to explicitly or inherently describe the polling operation set forth in claim 2.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 2 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claim 2.

F. CLAIM 6 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claim 6 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 6.

Lee's claim 6 sets forth "A method, comprising: while power is being supplied to a processing unit, detecting whether a video display unit is newly coupled to a connecting unit of said processing unit" (lines 2-3). Parks does not explicitly or inherently describe those features set forth in lines 2-3 of claim 6. Instead, Parks discloses a method of communicating some

capabilities of a monitor to a computer without requiring a user to insert a floppy diskette.

Also, Lee's claim 6 sets forth "A method, comprising: ... when said video display unit is detected as being newly coupled to said connecting unit while power is being supplied to said processing unit, *reading* first data corresponding to said video display unit; *determining* whether said first data corresponds to second data stored in a memory unit; when said first data does not correspond to said second data stored in said memory unit, *storing* said first data in said memory unit and *determining* a resolution corresponding to said video display unit and *transmitting* said resolution to a video card coupled to said video display unit; and said detecting further comprising *a polling operation* periodically checking said connecting unit, said detecting being performed while power is being newly supplied to said processing unit" (lines 6-16). Parks does not explicitly or inherently describe those features set forth in lines 6-16 of claim 6. In particular, Parks fails to explicitly or inherently describe the reading, determining, storing, and transmitting set forth in claim 6. Also, Lee respectfully submits that Parks fails to explicitly or inherently describe the polling operation as set forth in claim 6.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 6 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claim 6.

G. CLAIM 7 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claim 7 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 7.

Lee's claim 7 sets forth "A method, comprising: while power is being supplied to a processing unit, detecting whether a video display unit is newly coupled to a connecting unit of said processing unit" (lines 2-3). Parks does not explicitly or inherently describe those features set forth in lines 2-3 of claim 7. Instead, Parks discloses a method of communicating some capabilities of a monitor to a computer without requiring a user to insert a floppy diskette.

Also, Lee's claim 7 sets forth "A method, comprising: ... when said video display unit is detected as being newly coupled to said connecting unit while power is being supplied to said processing unit, *reading* first data corresponding to said video display unit; *determining* whether said first data corresponds to second data stored in a memory unit; when said first data does not correspond to said second data stored in said memory unit, *storing* said first data in said memory unit and *determining* a resolution corresponding to said video display unit and *transmitting* said resolution to a video card coupled to said video display unit; and said detecting further comprising *a polling operation* periodically checking said connecting unit, said detecting being performed after power has been newly supplied to said processing unit" (lines 6-16). Parks does not explicitly or inherently describe those features set forth in lines 6-16 of claim 7. In particular, Parks fails to explicitly or inherently describe the reading, determining, storing, and transmitting set forth in claim 7. Also, Lee respectfully submits that Parks fails to explicitly or

inherently describe the polling operation set forth above in claim 7.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 7 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claim 7.

H. CLAIM 8 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claim 8 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 8.

Lee's claim 8 sets forth "A method, comprising: while power is being supplied to a processing unit, detecting whether a video display unit is newly coupled to a connecting unit of said processing unit" (lines 2-3). Parks does not explicitly or inherently describe those features set forth in lines 2-3 of claim 8. Instead, Parks discloses a method of communicating some capabilities of a monitor to a computer without requiring a user to insert a floppy diskette.

Also, Lee's claim 8 sets forth "A method, comprising: ... *when* said video display unit is detected as being *newly coupled* to said connecting unit while power is being supplied to said processing unit, *reading* first data corresponding to said video display unit; *determining* whether said first data corresponds to second data stored in a memory unit; when said first data does not correspond to said second data stored in said memory unit, *storing* said first data in said memory

unit and determining a resolution corresponding to said video display unit and *transmitting* said resolution to a video card coupled to said video display unit; and said detecting further comprising a sensing of an *interrupt signal* occurring when said video display unit is newly coupled to said connecting unit, said detecting being performed while power is being newly supplied to said processing unit.” (lines 6-16). Parks does not explicitly or inherently describe those features set forth in lines 6-16 of claim 8. In particular, Parks fails to explicitly or inherently describe the reading, determining, storing, and transmitting set forth in claim 8. Also, Lee respectfully submits that Parks fails to explicitly or inherently describe the interrupt signal as set forth above in claim 8.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 8 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claim 8.

I. CLAIM 9 ALLOWABLE

Lee respectfully submits that the § 102 rejection of claim 9 is flawed. Lee respectfully submits that Parks fails to explicitly or inherently describe the features set forth in claim 9.

Lee's claim 9 sets forth “A method, comprising: while power is being supplied to a processing unit, detecting whether a video display unit is newly coupled to a connecting unit of said processing unit” (lines 2-3). Parks does not explicitly or inherently describe those features

set forth in lines 2-3 of claim 9. Instead, Parks discloses a method of communicating some capabilities of a monitor to a computer without requiring a user to insert a floppy diskette.

Also, Lee's claim 9 sets forth "A method, comprising: ... when said video display unit is detected as being newly coupled to said connecting unit while power is being supplied to said processing unit, reading first data corresponding to said video display unit; determining whether said first data corresponds to second data stored in a memory unit; when said first data does not correspond to said second data stored in said memory unit, storing said first data in said memory unit and determining a resolution corresponding to said video display unit and transmitting said resolution to a video card coupled to said video display unit; and said detecting further comprising a sensing of an interrupt signal occurring when said video display unit is newly coupled to said connecting unit, said detecting being performed after power has been newly supplied to said processing unit" (lines 6-16). Parks does not explicitly or inherently describe those features set forth in lines 6-16 of claim 9. In particular, Parks fails to explicitly or inherently describe the reading, determining, storing, and transmitting set forth in claim 9. Also, Parks fails to explicitly or inherently describe the interrupt signal as set forth in claim 9.

In view of the foregoing, Lee respectfully believes that the § 102 rejection of claim 9 is improper and should be withdrawn. Accordingly, Lee respectfully requests that the Examiner allow claim 9.

J. SUMMARY (CLAIMS 2, 6-9, and 21-50)

Lee respectfully submits that, herein above, Parks is shown to fail to explicitly or inherently describe the features set forth in claims 2, 6-9, and 21-50.

A rejection under § 102 requires that a single reference explicitly or inherently describe each and every element of the claim. “Anticipation under § 102 can be found only when the reference discloses exactly what is claimed and ... where there are differences between the reference disclosure and the claim, the rejection must be based on § 103 which takes differences into account.” *Titanium Metals Corp. of America v. Banner*, 227 USPQ 773,777 (Fed. Cir. 1985).

Because the § 102 rejection of claims 2, 6-9, and 21-50 is flawed and improper, Lee respectfully requests that the Examiner withdraw the rejection and allow the claims.

K. NEWLY ADDED CLAIMS 51-70

Lee has presented additional claims 51-70 to alternatively and more completely define Lee's invention and thereby assist the Examiner by facilitating the examination and expediting a compact prosecution. Although Paper No. 14 did not address these claims because they were not available to the Examiner until now, Lee desires to make a record showing why Parks does not describe them, in the interest of speedy and compact prosecution, and desires to otherwise indicate why they are patentable.

The claim 51 sets forth “The method of claim 2, said detecting whether said video display unit is newly coupled to said connecting unit corresponding to detecting whether a hot-plugging of said video display unit occurs.” A description of hot-plugging is provided by Lee's application in several locations. For example, see Lee's Specification from p. 5 at line 16 through to p. 6 at line 2. See also the Title, and page 1 at lines 10-13, for example. Regarding § 102, Parks fails to explicitly or inherently describe the hot-plugging set forth in claim 51. Regarding § 103, Parks fails to teach or suggest the hot-plugging set forth in claim 51. Parks is intended to prevent a need for a floppy diskette. Parks never mentions a hot-plugging of a video display unit.

In view of the foregoing, claim 51 is respectfully believed to be allowable. The claims 55, 59, 63, and 67 also set forth “hot-plugging” and are believed to be allowable at least for the same reasons that claim 51 is allowable.

The claim 52 sets forth “The method of claim 51, said hot-plugging of said video display unit corresponding to connecting said video display unit to said connecting unit after booting process of said processing unit is completed.” A description of booting process is provided by Lee's application in several locations. For example, see Lee's Specification on p. 5 at line 9. For more detail, see Lee's Specification from p. 3 at line 12 through to p. 5 at line 9. Regarding § 102, Parks fails to explicitly or inherently describe the features related to the hot-plugging and booting process set forth in claim 52. Regarding § 103, Parks fails to teach or suggest the

features related to the hot-plugging and booting process set forth in claim 52. Parks is intended to prevent a need for a floppy diskette. Parks never mentions a hot-plugging of a video display unit. Also, Parks never mentions that a video display unit is connected to a processing unit after a booting process is complete.

In view of the foregoing, claim 52 is respectfully believed to be allowable. The claims 56, 60, 64, and 68 also set forth “hot-plugging” and “booting process” and are believed to be allowable at least for the same reasons that claim 52 is allowable.

The claim 53 sets forth “The method of claim 2, said detecting being performed after booting process of said processing unit is completed.” A description of booting process is provided by Lee's application in several locations. For example, see Lee's Specification on p. 5 at line 9. For more detail, see Lee's Specification from p. 3 at line 12 through to p. 5 at line 9. Regarding § 102, Parks fails to explicitly or inherently describe “said detecting being performed after booting process ... is completed” of claim 53, in view of the features set forth in the base claim. Regarding § 103, Parks fails to teach or suggest those features set forth in claim 53. Parks is intended to prevent a need for a floppy diskette. Parks never mentions a detecting after a booting process is completed.

In view of the foregoing, claim 53 is respectfully believed to be allowable. The claims 57, 61, 65, and 69 also set forth “booting process” and are believed to be allowable at least for

the same reasons that claim 53 is allowable.

The claim 54 sets forth "The method of claim 2, said polling operation being performed after booting process of said processing unit is completed." A description of booting process is provided by Lee's application in several locations. For example, see Lee's Specification on p. 5 at line 9. For more detail, see Lee's Specification from p. 3 at line 12 through to p. 5 at line 9. Regarding § 102, Parks fails to explicitly or inherently describe "said polling operation being performed after booting process ... is completed" of claim 54, in view of the features set forth in the base claim. Regarding § 103, Parks fails to teach or suggest those features set forth in claim 54. Parks is intended to prevent a need for a floppy diskette. Parks never mentions a polling operation performed after a booting process is completed.

In view of the foregoing, claim 54 is respectfully believed to be allowable. The claims 58 and 62 also set forth "polling operation" and "booting process" and are believed to be allowable at least for the same reasons that claim 54 is allowable.

The claim 66 sets forth "The method of claim 8, said sensing of said interrupt signal being performed after booting process of said processing unit is completed." A description of booting process is provided by Lee's application in several locations. For example, see Lee's Specification on p. 5 at line 9. For more detail, see Lee's Specification from p. 3 at line 12 through to p. 5 at line 9. Regarding § 102, Parks fails to explicitly or inherently describe "said

sensing of said interrupt signal being performed after booting process ... is completed" of claim 66, in view of the features set forth in the base claim. Regarding § 103, Parks fails to teach or suggest those features set forth in claim 66. Parks is intended to prevent a need for a floppy diskette. Parks never mentions an interrupt signal performed after a booting process is completed.

In view of the foregoing, claim 66 is respectfully believed to be allowable. The claim 70 also sets forth "interrupt signal" and "booting process" and is believed to be allowable at least for the same reasons that claim 66 is allowable.

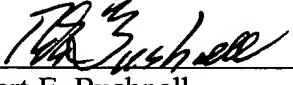
For these reasons, Lee respectfully submits that the newly added claims 51-70 are believed to be patentable, and Lee respectfully requests that the Examiner allow the newly added claims 51-70.

Numerous references were cited by the Examiner but not utilized in the rejection of the claims. As recognized by the Examiner, these references fail to teach or suggest the specifically recited features of the present invention and accordingly, Lee respectfully believes that no further comment on these references is necessary at this time.

In view of the above, it is submitted that the claims of this application are in condition for allowance, and early issuance thereof is solicited. Should any questions remain unresolved, the Examiner is requested to telephone Applicant's attorney.

A fee of \$360.00 is incurred by the addition twenty (20) total claims in excess of total 35. Applicant's check drawn to the order of Commissioner accompanies this Amendment. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Respectfully submitted,



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